## **SIEMENS**

## Data sheet

## US2:17CP82BD1081

Non-reversing motor starter Size 0 Three phase full voltage Amb compensate bimetal OLrelay Contactor amp rating 18Amp 208VAC 60HZ coil Combination type 30Amp fusible disconnect 30Amp / 250V fuse clip Enclosure NEMA type 1 Indoor general purpose use Extrawide enclosure

Figure similar

General technical data							
Weight [lb]	47 lb						
Height x Width x Depth [in]	24 × 20 × 8 in						
Protection against electrical shock	NA for enclosed products						
Installation altitude [ft] at height above sea level maximum	6560 ft						
Ambient temperature [°F] during storage	-22 +149 °F						
Ambient temperature [°F] during operation	-4 +104 °F						
Ambient temperature during storage	-30 +65 °C						
Ambient temperature during operation	-20 +40 °C						
Country of origin	USA						
Horsepower ratings							
Yielded mechanical performance [hp] for three-phase							
AC motor							
• at 200/208 V rated value	3 hp						
• at 220/230 V rated value	3 hp						
• at 460/480 V rated value	0 hp						

• at 575/600 V	rated value
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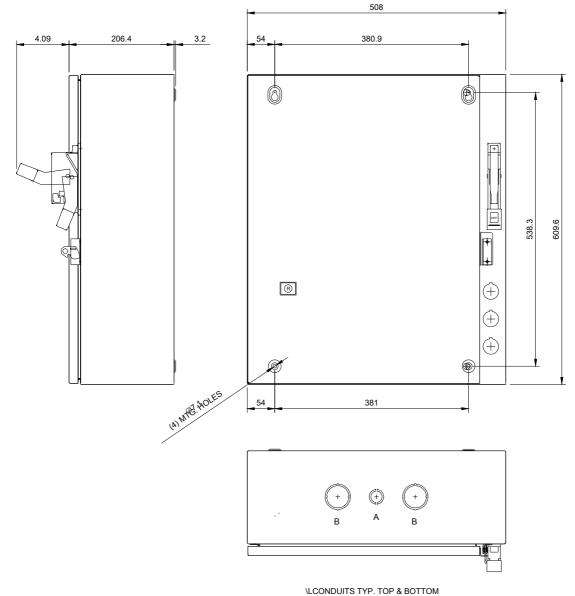
0 hp

• at 575/600 V rated value	0 hp							
Contactor								
Number of NO contacts for main contacts	3							
Operating voltage for main current circuit at AC at 60 Hz maximum	600 V							
Operating current at AC at 600 V rated value	18 A							
Mechanical service life (switching cycles) of the main contacts typical	1000000							
Auxiliary contact								
Number of NC contacts at contactor for auxiliary contacts	0							
Number of NO contacts at contactor for auxiliary contacts	1							
Number of total auxiliary contacts maximum	8							
Contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)							
Coil								
Type of voltage of the control supply voltage	AC							
Control supply voltage								
• at DC rated value	0 0 V							
• at AC at 60 Hz rated value	208 208 V							
• at AC at 50 Hz rated value	0 0 V							
Holding power at AC minimum	8.6 W							
Apparent pick-up power of magnet coil at AC	218 V·A							
Apparent holding power of magnet coil at AC	25 V·A							
Operating range factor control supply voltage rated value of magnet coil	0.85 1.1							
Percental drop-out voltage of magnet coil related to the input voltage	50 %							
Switch-on delay time	19 29 ms							
Off-delay time	10 24 ms							
Overload relay								
Product function								
Overload protection	Yes							
Test function	Yes							
• External reset	Yes							
Reset function	Manual and automatic							
Adjustment range of thermal overload trip unit	0.85 1.15							
Number of NC contacts of auxiliary contacts of overload relay	1							
Number of NO contacts of auxiliary contacts of overload relay	0							

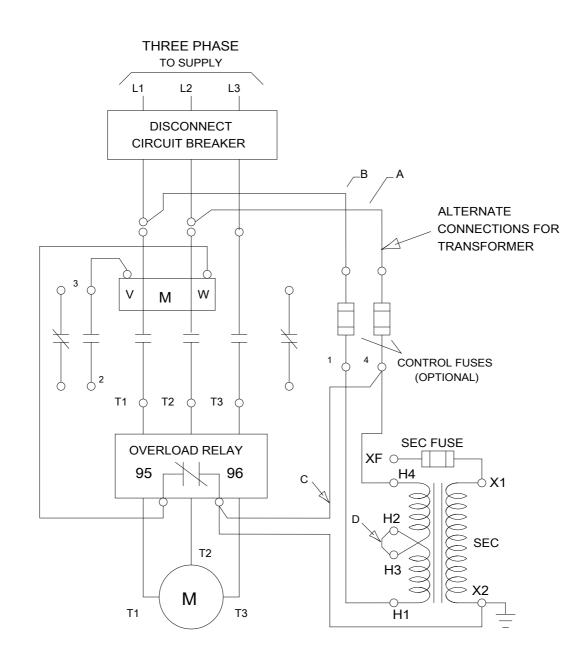
Operating current of auxiliary contacts of overload relay							
● at AC at 600 V	10 A						
● at DC at 250 V	5 A						
Contact rating of auxiliary contacts of overload relay according to UL	10A@600VAC (A600), 5A@250VDC (P300)						
Disconnect Switch							
Rated response values of switch disconnector	30A / 250V						
Design of fuse holder	Class R fuse clips						
Operating class of the fuse link	Class R						
Enclosure							
Degree of protection NEMA rating of the enclosure	NEMA Type 1						
Design of the housing	Indoor general purpose use						
Mounting/wiring							
(mounting position)	vertical						
(mounting type)	Surface mounting and installation						
Type of electrical connection for supply voltage line-	Box lug						
side							
Tightening torque [lbf-in] for supply	35 35 lbf·in						
Type of connectable conductor cross-sections at line-	1x (14 2 AWG)						
side at AWG conductors single or multi-stranded	75 %						
Temperature of the conductor for supply maximum permissible	75 °C						
Material of the conductor for supply	AL or CU						
Type of electrical connection for load-side outgoing feeder	Screw-type terminals						
Tightening torque [lbf·in] for load-side outgoing feeder	35 50 lbf·in						
Type of electrical connection of magnet coil	Screw-type terminals						
Tightening torque [lbf-in] at magnet coil	5 12 lbf·in						
Type of connectable conductor cross-sections of magnet coil at AWG conductors single or multi-stranded	2x (16 12 AWG)						
Temperature of the conductor at magnet coil maximum permissible	75 °C						
Material of the conductor at magnet coil	CU						
Type of electrical connection for auxiliary contacts	Screw-type terminals						
Tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf·in						
Type of connectable conductor cross-sections at contactor at AWG conductors for auxiliary contacts single or multi-stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)						
Temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C						

Material of the conductor at contactor for auxiliary contacts	CU					
Type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals					
Tightening torque [lbf·in] at overload relay for auxiliary contacts	5 12 lbf·in					
Type of connectable conductor cross-sections at overload relay at AWG conductors for auxiliary contacts single or multi-stranded	2x (16 12 AWG)					
Temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C					
Material of the conductor at overload relay for auxiliary contacts	CU					
Short-circuit current rating						
Design of the fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)					
Further information						
Industrial Controls - Product Overview (Catalogs, Broch www.usa.siemens.com/iccatalog	nures,)					
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:17CP82BD1081						
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:17CP82BD1081						
Image database (product images, 2D dimension drawin http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb:	igs, 3D models, device circuit diagrams, EPLAN macros,) =US2:17CP82BD1081⟨=en					
Certificates/approvals						

https://support.industry.siemens.com/cs/US/en/ps/US2:17CP82BD1081/certificate



LETTER	CONDUIT SIZE
A	%%C12.7 & %%C19 CONDUIT
В	Ø31.8 & Ø38.1 CONDUIT



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